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Nebraska Chemical Usage

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2004 Agricultural Chemical Usage

The agricultural chemical use estimates in this report refer to on-farm use of commercial fertilizers and pesticides on targeted crops for the 2004 crop year. Farm and ranch operators were enumerated late in the growing season or after the farm operator had indicated that planned applications were completed. The data were compiled from the Agricultural Resources Management Study (ARMS) and the Objective Yield Survey, conducted by USDA's National Agricultural Statistics Service.

Soybeans

Nitrogen was applied to 21 percent of the 2004 soybean acreage in 11 the Program States (AR, IL, IN, IA, KS, MN, MO, NE, ND, OH, SD). Soybean growers used an average of 1.5 applications per acre while applying 18 pounds of nitrogen per treatment. In the Program States, 26 percent of the planted soybean acreage received phosphates, while potash was applied to 23 percent of the planted acreage.

Herbicides were applied to 97 percent of the soybean acreage in 2004. Glyphosate was the most widely applied herbicide with 87 percent of the planted acreage being treated. It was applied at the rate of 0.73 pounds per acre.

In 2004, insecticides were used on 4 percent of the Program State acres, but no one active ingredient covered more than 1 percent of soybean Program State acres.

In Nebraska, nitrogen was applied to 25 percent of the acreage, phosphates to 28 percent and potash to 7 percent. Herbicides were applied to 94 percent of the soybean acreage while insecticide application covered 15 percent.

Soybeans: Acreage, Fertilizer and Pesticide Applications, Selected States, 2004

State	Planted Acreage	Nitrogen			Phosphate			Potash			Herbicide	Insecticide
		Area Applied	Appli-cations	Rate Per Application	Area Applied	Appli-cations	Rate Per Application	Area Applied	Appli-cations	Rate Per Application	Area Applied	Area Applied
	1,000 Acres	*Percent*	*Number*	*Pounds/acre*	*Percent*	*Number*	*Pounds/acre*	*Percent*	*Number*	*Pounds/acre*	*Percent*	*Percent*
Iowa	10,200	10	1.6	24	11	1.5	58	15	1.5	71	98	1
Kansas	2,800	22	1.9	19	25	1.5	32	5	1.8	29	97	[2]
Missouri	5,000	20	1.5	16	35	1.5	49	38	1.5	73	98	[2]
Nebraska	4,800	25	1.4	14	28	1.4	41	7	1.4	27	94	15
South Dakota	4,150	42	1.5	15	45	1.4	44	8	1.6	22	96	19
Total [1]	61,150	21	1.5	18	26	1.5	47	23	1.5	81	97	4

[1] Program States include: AR, IL, IN, IA, KS, MN, MO, NE, ND, OH, SD. [2] Insufficient reports to publish data.

Soybeans: Agricultural Chemical Applications, Nebraska, 2002 & 2004[1 2]

Agricultural Chemical	Area Applied		Applications		Rate per Application		Rate per Crop Year		Total Applied	
	2002	2004	2002	2004	2002	2004	2002	2004	2002	2004
Herbicides:	*Percent*	*Percent*	*Number*	*Number*	*Pounds/acre*	*Pounds/acre*	*Pounds/acre*	*Pounds/acre*	*1,000 Lbs.*	*1,000 Lbs.*
Acetamide		5		1.0		0.15		0.15		39
Alachlor	3	2	1.0	1.0	1.17	1.48	1.17	1.48	192	130
Chlorimuron-ethyl	6	5	1.0	1.0	0.02	0.03	0.02	0.03	6	8
Glyphosate	78	87	1.3	1.5	0.73	0.73	1.00	1.06	3,661	4,447
Glyphosate diam. salt	13	4	1.5	1.2	0.67	0.73	1.04	0.91	631	168
Imazethapyr	14	6	1.0	1.0	0.05	0.05	0.05	0.05	35	14
Metribuzin	3	6	1.0	1.0	0.26	0.19	0.26	0.19	33	55
Pendimenthalin	17	9	1.0	1.0	0.85	0.88	0.86	0.88	671	380
S-Metolachlor	4		1.0		0.77		0.77		162	
Sulfentrazone		6		1.1		0.15		0.17		48
Trifluralin	5	5	1.0	1.0	0.72	0.75	0.72	0.75	166	165
Insecticides:										
Chlorpyrifos	*	11	1.1	1.0	0.52	0.46	0.59	0.46	26	255

[1] Planted acres in 2004 for Nebraska were 4.8 million acres. [2] Missing data not published.
*Area applied less than one percent.

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Winter Wheat

Nitrogen was applied to 84 percent of the 2004 winter wheat acreage in 14 Program States (CO, ID, IL, KS, MI, MO, MT, NE, OH, OK, OR, SD, TX, WA). Winter wheat growers used an average of 2.0 applications per acre while applying 44 pounds of nitrogen per application. In the Program States, 55 percent of the planted winter wheat acreage received phosphates, while potash was applied to 16 percent of the planted acreage.

Herbicides were applied to 45 percent of the winter wheat acreage in the Program States during 2004. Metsulfuron-methyl was the most widely applied herbicide with 15 percent of the winter wheat acreage, followed by glyphosate and 2,4-D, both applied to 13 percent of the planted acreage in the States surveyed.

Insecticide applications were made to 7 percent of the winter wheat planted acres in 2004. Chlorpyrifos, the most widely used insecticide, was only applied to 3 percent of Program State acres planted.

In Nebraska, nitrogen was applied to 73 percent of the winter wheat acreage, phosphates to 42 percent, and potash to 3 percent. Herbicides were applied to 51 percent of the winter wheat acreage.

Winter Wheat: Acreage, Fertilizer and Pesticide Applications, Selected States, 2004

State	Planted Acreage	Nitrogen			Phosphate			Potash			Herbicide
		Area Applied	Appli-cations	Rate Per Application	Area Applied	Appli-cations	Rate Per Application	Area Applied	Appli-cations	Rate Per Application	Area Applied
	1,000 Acres	*Percent*	*Number*	*Pounds/acre*	*Percent*	*Number*	*Pounds/acre*	*Percent*	*Number*	*Pounds/acre*	*Percent*
Colorado	2,300	59	1.4	27	31	1.3	17	5	1.1	24	54
Kansas	10,000	90	2.2	39	62	1.5	29	6	1.4	26	38
Missouri	1,050	97	2.0	61	84	1.2	50	86	1.2	66	35
Nebraska	1,850	73	1.8	32	42	1.2	26	3	1.7	13	51
Total[1]	37,120	84	2.0	44	55	1.4	33	16	1.2	47	45

[1] Program States include: CO, ID, IL, KS, MI, MO, MT, NE, OH, OK, OR, SD, TX WA.

Winter Wheat: Agricultural Chemical Applications, Nebraska, 2004[1]

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Year	Total Applied
	2004	2004	2004	2004	2004
Herbicides:	*Percent*	*Number*	*Pounds/acre*	*Pounds/acre*	*1,000 Lbs.*
2,4-D	24	1.2	0.29	0.36	155
2,4-DP, Dimeth. salt	5	1.3	0.39	0.52	49
Acetic acid (2,4-D)	2	1.0	0.23	0.23	7
Chlorsulfuron	2	1.0	0.009	0.009	[2]
Dicamba	6	1.4	0.04	0.06	7
Glyphosate	11	1.6	0.60	0.98	205
Metsulfuron-methyl	9	1.0	0.003	0.003	[2]
Thifensulfuron	9	1.0	0.01	0.01	2
Triasulfuron	16	1.0	0.01	0.01	4
Tribenuron-methyl	10	1.0	0.006	0.006	1

[1] Planted acreage in 2004 for Nebraska was 1.9 million acres.
[2] Total applied is less than 500 lbs.

Agricultural chemical use and pest management practices data contained in this publication are a summary of data published in USDA NASS *Agricultural Chemical Usage - 2004 Field Crops Summary* on the internet at http://www.usda.gov/nass/ dated May 18, 2005.
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